



## SEQUENCE LISTING

<110> THE JOHNS HOPKINS UNIVERSITY SCHOOL OF MEDICINE  
WORLEY, Paul F.  
BRAKEMAN, Paul R.

<120> SYNAPTIC ACTIVATION PROTEIN COMPOSITIONS AND METHOD

<130> JHU1520-2

<140> US 09/910,706

<141> 2001-07-20

<150> US 09/042,428

<151> 1998-03-13

<150> US 60/036,553

<151> 1997-03-14

<160> 15

<170> PatentIn version 3.0

<210> 1

<211> 558

<212> DNA

<213> Rattus norvegicus

<220>

<221> CDS

<222> (1)...(558)

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atg ggg gaa caa cct atc ttc agc act cga gct cat gtc ttc cag atc	48
Met Gly Glu Gln Pro Ile Phe Ser Thr Arg Ala His Val Phe Gln Ile	
1 5 10 15	

gac cca aac aca aag aag aac tgg gta ccc acc agc aag cat gca gtt	96
Asp Pro Asn Thr Lys Lys Asn Trp Val Pro Thr Ser Lys His Ala Val	
20 25 30	

act gtg tct tat ttc tat gac agc aca aag aat gtg tat agg ata atc	144
Thr Val Ser Tyr Phe Tyr Asp Ser Thr Arg Asn Val Tyr Arg Ile Ile	
35 40 45	

agt cta gac ggc tca aag gca ata ata aat agc acc atc act cca aac	192
Ser Leu Asp Gly Ser Lys Ala Ile Ile Asn Ser Thr Ile Thr Pro Asn	
50 55 60	

atg aca ttt act aaa aca tct caa aag ttt ggc caa tgg gct gat agc	240
Met Thr Phe Thr Lys Thr Ser Gln Lys Phe Gly Gln Trp Ala Asp Ser	
65 70 75 80	

cgg gca aac act gtt tat gga ctg gga ttc tcc tct gag cat cat ctc	288
Arg Ala Asn Thr Val Tyr Gly Leu Gly Phe Ser Ser Glu His His Leu	
85 90 95	

tca aaa ttt gca gaa aag ttt cag gaa ttt aaa gaa gct gct cgg ctg	336
Ser Lys Phe Ala Glu Lys Phe Gln Glu Phe Lys Glu Ala Ala Arg Leu	
100 105 110	

gca aag gag aag tcg cag gag aag atg gaa ctg acc agt acc cct tca 384  
 Ala Lys Glu Lys Ser Gln Glu Lys Met Glu Leu Thr Ser Thr Pro Ser  
           115                          120                          125

cag gaa tca gca gga gga gat ctt cag tct cct tta aca cca gaa agt 432  
 Gln Glu Ser Ala Gly Gly Asp Leu Gln Ser Pro Leu Thr Pro Glu Ser  
           130                          135                          140

atc aat ggg aca gat gat gag aga aca ccc gat gtg aca cag aac tca 480  
 Ile Asn Gly Thr Asp Asp Glu Arg Thr Pro Asp Val Thr Gln Asn Ser  
           145                          150                          155                          160

gag cca agg gct gag cca gct cag aat gca ttg cca ttt tca cat agg 528  
 Glu Pro Arg Ala Glu Pro Ala Gln Asn Ala Leu Pro Phe Ser His Arg  
                           165                          170                          175

tac aca ttc aat tca gca atc atg att aaa 558  
 Tyr Thr Phe Asn Ser Ala Ile Met Ile Lys  
                           180                          185

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                           20                          25                          30  
 Thr Val Ser Tyr Phe Tyr Asp Ser Thr Arg Asn Val Tyr Arg Ile Ile  
           35                          40                          45  
 Ser Leu Asp Gly Ser Lys Ala Ile Ile Asn Ser Thr Ile Thr Pro Asn  
           50                          55                          60  
 Met Thr Phe Thr Lys Thr Ser Gln Lys Phe Gly Gln Trp Ala Asp Ser  
   65                          70                          75                          80  
 Arg Ala Asn Thr Val Tyr Gly Leu Gly Phe Ser Ser Glu His His Leu  
                           85                          90                          95  
 Ser Lys Phe Ala Glu Lys Phe Gln Glu Phe Lys Glu Ala Ala Arg Leu  
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 Ala Lys Glu Lys Ser Gln Glu Lys Met Glu Leu Thr Ser Thr Pro Ser  
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 Gln Glu Ser Ala Gly Gly Asp Leu Gln Ser Pro Leu Thr Pro Glu Ser  
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 Ile Asn Gly Thr Asp Asp Glu Arg Thr Pro Asp Val Thr Gln Asn Ser  
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 Glu Pro Arg Ala Glu Pro Ala Gln Asn Ala Leu Pro Phe Ser His Arg  
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 Tyr Thr Phe Asn Ser Ala Ile Met Ile Lys  
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Met Gly Glu Gln Pro Ile Phe Thr Thr Arg Ala His Val Phe Gln Ile  
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 Asp Pro Asn Thr Lys Lys Asn Trp Met Pro Ala Ser Lys His Gly His  
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 35 40 45  
 Val Asp  
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<210> 4  
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Tyr Phe Tyr Asp Val Thr Arg Asn Ser Tyr Arg Ile Ile Ser Val Asp  
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 Gly Ala Lys Val Ile Ile Asn Ser Thr Ile Thr Pro Asn Met Thr Phe  
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 Thr Lys Thr Ser Gln Lys Phe Gly Gln Trp Ala Asp Ser Arg Ala Asn  
 35 40 45  
 Thr Val Phe Gly Leu Gly Phe Ser Ser Glu Leu Gln Leu Thr Lys Phe  
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 Ala Glu Lys Phe Gln Glu Val Arg Glu Ala Ala Arg Leu Ala Arg Asp  
 65 70 75 80  
 Lys Ser Gln Glu Lys Thr Glu Thr Ser Ser Asn His Ser Gln Glu Ser  
 85 90 95  
 Gly Cys Glu Thr Pro Ser Ser Thr Gln Ala Ser Ser Val Asn Gly Thr  
 100 105 110  
 Asp Asp Glu Lys Ala Ser His Ala Ser Pro Ala Asp Thr His Leu Lys  
 115 120 125  
 Ser Glu Asn Asp Lys Leu Lys Ile Ala Leu Thr Gln Ser Ala Ala Asn  
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Arg Asp Tyr Thr Gln Ser Ser Ser Ser Leu  
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Ser Ser Ser Leu

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<210> 12  
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<210> 13  
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Gly His Arg Phe

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Gly Leu Gly Phe

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Thr Ser Ser Leu  
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